CLAIMS

WHAT IS CLAIMED IS:

1. An antibody that competitively inhibits binding of SLC15A2 polypeptide to a second antibody comprising a CDR sequence of PDO5 #810 or #811.

2. The antibody of claim 1, wherein the antibody is conjugated to an effector component.

3. The antibody of claim 2, wherein the effector component is a fluorescent label.

4. The antibody of claim 2, wherein the effector component is a radioisotope or a cytotoxic chemical.

5. The antibody of claim 4, wherein the cytotoxic chemical is auristatin.

6. The antibody of claim 1, wherein the antibody is an antibody fragment.

7. The antibody of claim 1, wherein the antibody is humanized.

8. The antibody of claim 1, wherein the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 7, 8, 9 and 10.

9. The antibody of claim 1, wherein the SLC15A2 polypeptide is on a cancer or fibrosis cell.

10. A pharmaceutical composition comprising a pharmaceutically acceptable excipient and the antibody of claim 1.

11. The pharmaceutical composition of claim 10, wherein the antibody is conjugated to an effector component.

12. The pharmaceutical composition of claim 11, wherein the effector component is a fluorescent label.

13. The pharmaceutical composition of claim 11, wherein the effector component is a radioisotope or a cytotoxic chemical.

14. The pharmaceutical composition of claim 13, wherein the cytotoxic chemical is auristatin.

15. The pharmaceutical composition of claim 10, wherein the antibody is humanized.

16. The pharmaceutical composition of claim 10, wherein the antibody comprises an amino acid sequence selected from the group consisting of SEQ ID NO: 7, 8, 9 and 10.

17. A method of detecting a cancer or fibrosis cell in a biological sample from a patient, the method comprising contacting the biological sample with an antibody of claim 1.

18. The method of claim 17, wherein the cancer or fibrosis cell is selected from the group consisting of an ovarian, uterine, prostate, lung, glioblastoma, cervical, or fibrosis-associated cell.

19. The method of claim 17, wherein the antibody is conjugated to a fluorescent label.

20. A method of inhibiting proliferation of an ovarian, uterine, prostate, lung, glioblastoma, cervical, or fibrosis-associated cell, the method comprising the step of contacting the cell with an antibody of claim 1.

21. The method of claim 20, wherein the antibody is an antibody fragment.

22. The method of claim 20, wherein the ovarian, uterine, prostate, lung, brain, cervical, or fibrosis cell is in a patient.

23. The method of claim 22, wherein the patient is a primate.

24. The method of claim 22, wherein the patient is undergoing a therapeutic regimen to treat metastatic ovarian cancer, uterine cancer, prostate cancer, lung cancer, or cervical cancer.

25. The method of claim 22, wherein the patient is suspected of having metastatic ovarian cancer, uterine cancer, prostate cancer, lung cancer, or cervical cancer.

26. An antibody comprising an amino acid sequence selected from the group of CDR sequences in SEQ ID NO: 7-10.

27. The antibody of claim 26, wherein the antibody is conjugated to an effector component.

28. A pharmaceutical composition comprising a pharmaceutically acceptable excipient and the antibody of claim 26.

29. A method of detecting a cancer or fibrosis cell in a biological sample from a patient, the method comprising contacting the biological sample with an antibody of claim 26.

30. A method of inhibiting proliferation of an ovarian, prostate, lung, or cervical cancer or fibrosis-associated cell, the method comprising the step of contacting the cell with an antibody of claim 26.